

Message Text

UNCLASSIFIED

PAGE 01 SINGAP 03360 110045Z
ACTION EA-09

INFO OCT-01 ISO-00 EB-08 /018 W
-----082167 110901Z /12

R 100350Z AUG 77
FM AMEMBASSY SINGAPORE
TO USDOC WASHDC
INFO SECSTATE WASHDC 8258
AMEMBASSY BANGKOK
AMCONSUL HONG KONG

UNCLAS SINGAPORE 3360

E.O. 11652: N/A
TAGS: PTIO, SN
SUBJECT: FOREIGN GOVERNMENT TENDER -
SPECIAL HANDLING - TELECOMMUNICATION AUTHORITY OF SINGAPORE

1. 559/01/T-0042

2. 080877

3. BRUCE MALKIN

4. 559 SINGAPORE

5. N

6A. WRITE TO --
6B. MR DOUGLAS W.H. TING; HEAD, PURCHASING,
RADIO & TRANSMISSION DEPARTMENT
6C. TELECOMMUNICATION AUTHORITY OF SINGAPORE
4TH FLOOR PLAZA SINGAPURA
68 ORCHARD ROAD
SINGAPORE 9

7. TENDER NO: PT/88/77(Y)
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8. 11/4/77 (2:30 PM SINGAPORE TIME)

9. 201

10. 36625 -SUPPLY OF APPROACH CONTROL RADAR SYSTEM AT CHANGI
INTERNATIONAL AIRPORT. THIS TENDER CONSISTS OF TWO SEPARATE PARTS.

PART A: THE DESIGN, MANUFACTURE, SUPPLY, INSTALLATION AND COMMISSIONING ON A TURN-KEY BASIS, OF A COMBINED APPROACH CONTROL PRIMARY AND SECONDARY RADAR SYSTEM AT AND TO SERVE THE NEW CHANGI INTERNATIONAL AIRPORT, SINGAPORE.

PART B: THE DESIGN, MANUFACTURE, SUPPLY, INSTALLATION, TESTING AND BRINGING INTO COMMERCIAL OPERATION ALL EQUIPMENT (INCLUDING COMPUTER SOFTWARE) AND WOGSS NECESSARY FOR THE INTEGRATION OF THE CHANGI APPROACH CONTROL RADAR SYSTEM TO THE AUTOMATED AIR TRAFFIC CONTROL SYSTEM.

THE REQUIREMENTS FOR THE APPROACH CONTROL RADAR INCLUDE PRINCIPALLY, BUT ARE NOT LIMITED TO THE FOLLOWING:

A. THE DESIGN, MANUFACTURE, FACTORY INSPECTION, TESTING AND PACKING, SUPPLY AND DELIVERY TO THE YKTE OF THE COMBINED PRIMARY AND SECONDARY RADAR SYSTEM, RADAR REMOTING EQUIPMENT, A BRIGHT DISPLAY SUB-SYSTEM AND ALL REQUIRED EQUIPMENT. ALL NECESSARY FACILITIES, PARTS AND HARDWARE INCLUDING CONNECTORS, CABLING, ADAPTORS AND OUTLETS, ETC SHALL BE INCORPORATED TO ENABLE THE COMPONENTS OF THE SYSTEM TO BE PROPERLY ASSEMBLED, INTERCONNECTED AND INSTALLED AS REQUIRED.

B. THE SUPPLY AND LAYING OF ALL CABLES BETWEEN THE RADAR HEAD BUILDING AND THE RADAR COMPLEX AND THE CHANGI CONTROL TOWER.

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C. THE DESIGN AND CONSTRUCTION OF AN ANTENNA TOWER TO MOUNT THE ANTENNA ASSEMBLY.

D. THE INSTALLATION, PROVISION OF ALL NECESSARY LABOR AND INSTALLATION EQUIPMENT AND MATERIAL, TESTING, COMMISSIONING AND FLIGHT INSPECTION OF THE COMBINED RADAR SYSTEM.

E. THE TRAINING OF STAFF NOMINATED BY THE AUTHORITY ON THE MAINTENANCE AND OPERATION OF THE COMPLETE SYSTEM.

F. THE SUPPLY OF ALL INFORMATION REQUESTED BY THE AUTHORITY FOR THE INTEGRATION OF THE RADAR TO THE AUTOMATED AIR TRAFFIC CONTROL SYSTEM.

THE APPROACH CONTROL RADAR SYSTEM SHOULD INCLUDE THE FOLLOWING MAJOR ITEMS:

A. ANTENNA ASSEMBLY (PRIMARY RADAR ANTENNA SYSTEM WITH ON-MOUNTED SSR ANTENNA).

B. PRIMARY RADAR TRANSMITTER-RECEIVER EQUIPMENT (DUAL-CHANNEL FREQUENCY-DIVERSITY OPERATION.)

C. SSR TRANSMITTER-RECEIVER EQUIPMENT (DUAL CHANNEL).

D. POWER DISTRIBUTION AT THE RADUR SITE.

E. ASSOCIATED EQUIPMENT INCLUDING REGULATED POWER SUPPLIES, WAVEGUIDE SYSTEM.

F. RADAR REMOTING SYSTEM AND CABLING.

G. CONTROL PANELS (LOCAL & REMOTE) AND JUCTION BOXES (LOCAL & REMOTE).

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H. MONITOR EQUIPMENT INCLUDING RADAR HEAD BUILDING MAINTENANCE PPI AND SSR PERFORMANCE MONITOR.

I. A BRIGHT DISPLAY SUB-SYSTEM.

J. SPECIAL TOOLS & TEST EQUIPMENT FOR MAINTENANCE.

K. ANTENNA TOWER.

THE APPROACH CONTROL RADAR SYSTEM SHALL BE FULLY TROPICALIZED AND BE CAPABLE OF CONTINUOUS, UNATTENDED OPERATION UNDER THE FOLLOWING SERVICE CONDITIONS THROUGHOUT ITS SERVICE LIFE WITHOUT DEGRADATION IN SYSTEM PERFORMANCE:

I. OUTDOOR EQUIPMENT:

A. AMBIENT TEMPERATURE: UP TO PLUS 50 DEGREES C.

B. RELATIVE HUMIDITY: UP TO 100 PERCENT.

C. SALT ATMOSPHERE: AS ENCOUNTERED IN COASTAL REGIONS.

D. RAINFALL: UP TO 12 CM PER HOUR.

E. WIND SPEED: UP TO 110 KM PER HOUR (ANTENNA STRUCTURE SURVIVAL AT 200 KM PER HOUR).

II. INDOOR EQUIPMENT:

A. AMBIENT TEMPERATURE: UP TO PLUS 45 DEGREES C.

B. RELATIVE HUMIDITY: UP TO 90 PERCENT.

TENDERERS MAY QUOTE FOR BOTH PARTS A AND B OR ANY ONE PART ONLY. PROPOSALS FOR PART A AND PART B SHALL BE SUBMITTED AND CONSIDERED BY THE AUTHORITY ON A SEPARATE BASIS AND SHALL BE AWARDED INDEPENDENTLY

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AS SEPARATE CONTRACTS.

11. TENDER DOCUMENTS ARE AVAILABLE FROM THE TELECOMMUNICATION AUTHORITY OF SINGAPORE UPON PAYMENT OF A S\$2,000 (PPROX US\$800) DEPOSIT. DEPOSITS SHOULD BE IN THE FORM OF A CROSSED CHECK MADE OUT IN FAVOR OF THE TELECOMMUNICATION AUTHORITY OF SINGAPORE. A SITE BRIEFING AND VISIT WILL BE HELD WITH TENDERERS ON SEPTEMBER 16, 1977. TENDERERS ARE TO MEET IN TELECOMS CONFERENCE ROOM NO 2, 31ST FLOOR, INTERNATIONAL PLAZA, ANSON ROAD, SINGAPORE 2, AT 9:30AM SINGAPORE TIME.

12. CRITERIA C: AMERICAN SUPPLIERS HAVE AN AVERAGE CHANCE FOR SUCCESS AND THE VALUE OF ALL PRODUCTS IN THE TRADE OPPORTUNITY EXCEEDS US\$1 MILLION. THE NEW CHANGI INTERNATIONAL AIRPORT IS A SINGAPORE GOVERNMENT MAJOR PROJECT.
HOLDRIDGE

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NNN

Message Attributes

Automatic Decaptioning: X
Capture Date: 01-Jan-1994 12:00:00 am
Channel Indicators: n/a
Current Classification: UNCLASSIFIED
Concepts: n/a
Control Number: n/a
Copy: SINGLE
Sent Date: 10-Aug-1977 12:00:00 am
Decaption Date: 01-Jan-1960 12:00:00 am
Decaption Note:
Disposition Action: n/a
Disposition Approved on Date:
Disposition Case Number: n/a
Disposition Comment:
Disposition Date: 01-Jan-1960 12:00:00 am
Disposition Event:
Disposition History: n/a
Disposition Reason:
Disposition Remarks:
Document Number: 1977SINGAP03360
Document Source: CORE
Document Unique ID: 00
Drafter: n/a
Enclosure: n/a
Executive Order: N/A
Errors: N/A
Expiration:
Film Number: D770289-0274
Format: TEL
From: SINGAPORE
Handling Restrictions: n/a
Image Path:
ISecure: 1
Legacy Key: link1977/newtext/t19770876/aaaacmkg.tel
Line Count: 191
Litigation Code IDs:
Litigation Codes:
Litigation History:
Locator: TEXT ON-LINE, ON MICROFILM
Message ID: 26bb305d-c288-dd11-92da-001cc4696bcc
Office: ACTION EA
Original Classification: UNCLASSIFIED
Original Handling Restrictions: n/a
Original Previous Classification: n/a
Original Previous Handling Restrictions: n/a
Page Count: 4
Previous Channel Indicators: n/a
Previous Classification: n/a
Previous Handling Restrictions: n/a
Reference: n/a
Retention: 0
Review Action: RELEASED, APPROVED
Review Content Flags:
Review Date: 26-Oct-2004 12:00:00 am
Review Event:
Review Exemptions: n/a
Review Media Identifier:
Review Release Date: n/a
Review Release Event: n/a
Review Transfer Date:
Review Withdrawn Fields: n/a
SAS ID: 1645207
Secure: OPEN
Status: NATIVE
Subject: FOREIGN GOVERNMENT TENDER - SPECIAL HANDLING - TELECOMMUNICATION AUTHORITY OF SINGAPORE
TAGS: BTIO, BPRO, SN
To: COM
Type: TE
vdkgvwkey: odbs://SAS/SAS.dbo.SAS_Docs/26bb305d-c288-dd11-92da-001cc4696bcc
Review Markings:
Margaret P. Grafeld
Declassified/Released
US Department of State
EO Systematic Review
22 May 2009
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